AFCTN Test Report 94-137

AFCTB-ID 94-084

TMSS Parsing Test

MIL-M-9977J, Appendix C, Nonnuclear Munitions Basic Information

Document Type Definition

MAXIMA Corporation

DISA Contract #DCA100-93-D-0065

Quick Short Test Report

23 June 1994

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TMSS Parsing Test

MIL-M-9977J, Appendix C,

Nonnuclear Munitions Basic Information

Document Type Definition

For:

MAXIMA Corporation

DISA Contract #DCA100-93-D-0065

Quick Short Test Report

23 June 1994

Prepared By
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Air Force CALS Test Bed

Notification of Test Results

23 June 1994

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

MAXIMA Corporation

Identified as follows:

Title:	**MIL-M-9977J, Appendix C, Nonnuclear Munitions Basic Information, DTD Parsing Test**
Program:	**DISA**
Program Office:	**DISA**
Contract No.:	**DCA100-93-D-0065**
QSTR No.:	**AFCTB-ID 94-084**

Received on the following media: **3.5" Diskette**

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Media Format:	**N/A**
MIL-D-28000A IGES:	**N/A**
MIL-M-28001B SGML:	**Pass**
MIL-R-28002A Raster:	**N/A**
MIL-D-28003 CGM:	**N/A**

Formal results with associated disclaimer are documented and available from the AFCTB.

<div align="center">

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HQ ESC/AV-2P
4027 Colonel Glenn Highway, Suite 300
Dayton, OH 45431-1672
Phone: 513-257-3085   FAX: 513-257-5881

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Contents

1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of this informal test is to analyze Air Force
Document Type Definitions (DTDs) for Standard Generalized
Markup Language (SGML) syntax, using several commercial and
public domain SGML parsers, prior to placing them in the
Defense Information Systems Agency (DISA) Asset Source for
Software Engineering Technology (ASSET) repository.

2. Test Parameters

Test Plan: AFCTB 94-084

**Date of
Evaluation:**   23 June 1994

Evaluator: George Elwood
                          Air Force CALS Test Bed
                          DET 2 HQ ESC/AV-2P
                          4027 Colonel Glenn Hwy
                          Suite 300
                          Dayton OH 45431-1672

**Data
Originator:**   Kay Hill
                          MAXIMA Corporation
                          2372 Lakeview Drive
                          Beavercreek OH 45431
                          (513) 427-5888

**Data
Description:**   Technical Manual Test
                                1 DTD

**Data
Source System:**

                    Text/SGML
                          SOFTWARE
                                Unknown

Evaluation Tools Used:

                    MIL-M-28001 (SGML)
                          PC 486/50
                                Exoterica *XGMLNormalizer v1.2e3.2*
                                Exoterica *Validator v2.2 exl*
                                McAfee & McAdam *Sema Mark-it v2.3*
                                Public Domain *sgmls 1.1*

**Standards
Tested:**   MIL-M-28001B

3. 1840A Analysis

3.1 External Packaging

The 3.5" diskette was hand delivered to the Air Force CALS Test Bed (AFCTB). It was not enclosed in any type of container.

The files received by the AFCTB were not MIL-STD-1840A. The files were not named per the standard conventions, as the stated purpose of the evaluation was the basic data structure.

4. SGML Analysis

The AFCTB has several parsers available for evaluating submitted DTD and text files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report.

The goal was to configure the DTD under analysis as it would normally be used. However, for this analysis it was necessary to modify the DTD adding the "DOCTYPE doc [" statement to the start and the companion "]>" to the end of the DTD under evaluation, as stated in the comments of the DTD. If the parser did not support a formal file pointing to the location of the ISO character sets, this was added.

The DTD under evaluation, MIL-M-9977J, Appendix C, Nonnuclear Munitions Basic Information, called a sequence of companion DTDs, each in turn, as illustrated by the diagram below. These DTDs were delivered on the same diskette as the DTD to be evaluated. The DTDs were not changed except to point to the succeeding DTD in the sequence and to insert the location of the ISO character set files in the D784CB0.A3 DTD.

MIL-M-9977J Nonnuclear Munitions Basic Information DTD

D977JC0.ORG --> D977JA0.ORG --> D784CB0.A3

The following notes apply to the parsing analysis as indicated in the
ensuing paragraphs.

Note 1. Entity parameters defined more than once is a vaild SGML
         construct. The duplicate definition errors and/or warn-
         ings in this analysis do not indicate any problems.

Note 2. Some of the parsers report mixed content model warnings.
         The use of such content models is normally unnecessary and
         therefore not normally recommended. Record boundaries
         within elements of associated instances may be misinter-
         preted where a mixed content model exists in the DTD.

Note 3. The occurrences of warnings "references defined, but not
         used," appeared because portions of the called DTD, i.e.,
         MIL-M38784C, were not used. They were not used because
         the entity definitions of the DTD under analysis altered
         the execution path in the called DTD. The warnings in
         this analysis do not indicate any problems.

4.1 Exoterica Validator

The DTD file was evaluated using the Exoterica *Validator exl*
parser. The basic DTD was modified by placing the concrete
syntax file and "<!DOCTYPE doc [" at the start and the "]>"
at the end. No errors were reported by the parser.

The parser reported 31 total warnings of two types. The
first type warning was for a parameter entity declared more
than once. See Note 1 above.

```
<!-- **Warning** in "c:\ws\977j.dtd" (entity "%mnucbasld"), line 29,
     used in "\xgml\9484.dtd", line 123:
   A parameter entity name has been declared more than once.
   The entity is "%bodyele".
   <!ENTITY % bodyele "(basinfo, bomweapld, practbl)" >
             ^^^^^^^
-->
```

The second type of warning relates to elements defined but not used in any content model. See Note 3 above.

```
<!-- **Warning** in "\xgml\9484.dtd", line 288:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "ACCPREP".
-->
```

4.2   Exoterica XGML Normalizer

The DTD file was parsed using the Exoterica *XGMLNormalizer* parser. The concrete syntax and "<!DOCTYPE doc [" were added to the start and "]>" to the end of the file. No errors or warnings were issued by this utility.

4.3   Public Domain sgmls

The DTD file was evaluated using the Public Domain *sgmls* *v1.1* parser. The file was modified by adding the "<!DOCTYPE doc [" to the start and "]>" to the end of the file as stated in the comments in the DTD. File D784CB0.A3 location was inserted into the DTD. The parser reported 11 total warnings of the same type. This type warning was for duplicate definitions. See Note 1 above.

```
sgmls: In file included at \ws\9484.dtd, line 51:
       Warning at c:\ws\977j.dtd, line 29 in declaration parameter 4:
       Duplicate specification occurred for "%bodyele"; duplicate ignored
```

4.4   Sema Mark-it

The DTD file was evaluated using McAfee & McAdam's *Sema Mark-it v2.3* parser. The file was modified by adding the concrete syntax and "<!DOCTYPE doc [" to the start and "]>" to the end of the file. No errors or warnings were issued by this utility.

5. Conclusions and Recommendations

The file D977JC0.ORG, MIL-M-9977J, Appendix C, Nonnuclear Munitions Basic Information, conforms to the SGML syntax of ISO Standard 8879, as required by the CALS MIL-M-28001B specification.

The errors, warnings, and comments reported by the parsers used in this evaluation do not indicate invalid SGML syntax. However, the mixed content model flagged by warnings from three of the five parsers, may cause problems in the use of this DTD. See Note 3, Paragraph 4, above.

Recommend the DTD be changed to eliminate the mixed content model. If this is not possible, users should be alerted to the potential problems that may occur in the application of the DTD, and proper guidance should be provided users to avoid the potential problems in the use of this DTD.

6. Appendix A - Detailed SGML Analysis

6.1 Exoterica Validator

```
<!-- **Warning** in "c:\ws\977j.dtd" (entity "%mnucbasld"), line 29,
     used in "\xgml\9484.dtd", line 123:
   A parameter entity name has been declared more than once.
   The entity is "%bodyele".
   <!ENTITY % bodyele "(basinfo, bomweapld, practbl)" >
           ^^^^^^^^
-->
   The entity is "%shortitleuse".
   The entity is "%shortitle".
   The entity is "%titles".
   The entity is "%sedesc".

<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 37,
     used in "c:\ws\977j.dtd" (entity "%mnucbasld"), line 94,
     used in "\xgml\9484.dtd", line 123:
   A parameter entity name has been declared more than once.
   The entity is "%shortitleuse".
   <!ENTITY % shortitleuse "IGNORE" >
           ^^^^^^^^^^^^^^^
-->
   The entity is "%shortitle".
   The entity is "%frnt".
   The entity is "%titles".
   The entity is "%bodyele".
   The entity is "%nparcon".
   The entity is "%sect".
<!-- **Warning** in "\xgml\9484.dtd", line 288:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "ACCPREP".
-->
   The element is "ACFTPREP".
   The element is "ADDRESS".
   The element is "AIRDESC".
   The element is "AIRPREP".
   The element is "AIRPREPLD".
   The element is "BASINFO".
   The element is "BOMBWEAPSECT".
   The element is "BOMWEAPDESC".
   The element is "BOMWEAPLD".
   The element is "CARTINS".
   The element is "CHAPTER".
```

```
The element is "CHGINSSHT".
The element is "CHGLIST".
The element is "CHGREC".
The element is "DDCHAPTER".
The element is "DDDESC".
The element is "DDINDEX".
The element is "DDINTRO".
The element is "DDLIST".
The element is "DDSHEET".
The element is "DEPLOY".
The element is "DLAYFLT".
The element is "DOC".
The element is "DOCNUCBASLD".
The element is "DOCPART".
The element is "EMERGPROC".
The element is "FCTFUNCCHK".
The element is "FERRYPROC".
The element is "GENERAL".
The element is "GENPROC".
The element is "GENSAFREQ".
The element is "ILLUSLIST".
The element is "INSERTPG".
The element is "INTRO".
The element is "LOAD".
The element is "LOADPREP".
The element is "NONSTRTOSTR".
The element is "PGNO".
The element is "POSTLDINSP".
The element is "PRACTBL".
The element is "PRACTBLSECT".
The element is "PREFACE".
The element is "PREUNLOAD".
The element is "PRIORLNCH".
The element is "RACKLOAD".
The element is "REMOVEPG".
The element is "SAFING".
The element is "SCOPE".
The element is "SHORTTITLE".
The element is "SPECSAFREQ".
The element is "STRAYVOLTCHK".
The element is "STRNONSTR".
The element is "SUPPEQDESC".
The element is "SUPPEQUIPDESC".
The element is "TABLELIST".
The element is "UNLOAD".
The element is "UNLOADPROC".
The element is "VOLUME".
The element is "WARNPAGE".
```

```
-->
<!-- Capacity points/limits:
      TOTALCAP =182649/200000
      ENTCAP   =13696/200000
      ENTCHCAP =13313/70000
      ELEMCAP  =6656/70000
      GRPCAP   =38048/70000
      EXGRPCAP =1056/70000
      EXNMCAP  =2016/70000
      ATTCAP   =80320/200000
      ATTCHCAP =1941/70000
      AVGRPCAP =25344/70000
      NOTCAP   =96/70000
      NOTCHCAP =163/70000
      IDCAP    =0/70000
      IDREFCAP =0/70000
      MAPCAP   =0/70000
      LKSETCAP =0/70000
      LKNMCAP  =0/70000
-->
<!-- 0 errors and 72 warnings reported. -->
```

6.2 Public Domain sgmls Log

```
sgmls: In file included at \ws\9484.dtd, line 51:
       Warning at c:\ws\977j.dtd, line 29 in declaration parameter 4:
       Duplicate specification occurred for "%bodyele"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       Warning at c:\ws\977j.dtd, line 33 in declaration parameter 4:
       Duplicate specification occurred for "%shortitleuse"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       Warning at c:\ws\977j.dtd, line 41 in declaration parameter 4:
       Duplicate specification occurred for "%shortitle"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       Warning at c:\ws\977j.dtd, line 43 in declaration parameter 4:
       Duplicate specification occurred for "%titles"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       Warning at c:\ws\977j.dtd, line 69 in declaration parameter 4:
       Duplicate specification occurred for "%sedesc"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       In file included at c:\ws\977j.dtd, line 94:
       Warning at i:\dtd\784c.dtd, line 37 in declaration parameter 4:
       Duplicate specification occurred for "%shortitleuse"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       In file included at c:\ws\977j.dtd, line 94:
       Warning at i:\dtd\784c.dtd, line 45 in declaration parameter 4:
       Duplicate specification occurred for "%shortitle"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       In file included at c:\ws\977j.dtd, line 94:
       Warning at i:\dtd\784c.dtd, line 109 in declaration parameter 4:
       Duplicate specification occurred for "%frnt"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       In file included at c:\ws\977j.dtd, line 94:
       Warning at i:\dtd\784c.dtd, line 126 in declaration parameter 4:
       Duplicate specification occurred for "%titles"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       In file included at c:\ws\977j.dtd, line 94:
       Warning at i:\dtd\784c.dtd, line 165 in declaration parameter 4:
       Duplicate specification occurred for "%bodyele"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       In file included at c:\ws\977j.dtd, line 94:
       Warning at i:\dtd\784c.dtd, line 177 in declaration parameter 4:
       Duplicate specification occurred for "%nparcon"; duplicate ignored
sgmls: In file included at \ws\9484.dtd, line 51:
       In file included at c:\ws\977j.dtd, line 94:
       Warning at i:\dtd\784c.dtd, line 206 in declaration parameter 4:
       Duplicate specification occurred for "%sect"; duplicate ignored
```

```
TOTALCAP 182276
ENTCAP 13696
ENTCHCAP 12908
ELEMCAP 6656
GRPCAP 38048
EXGRPCAP 1088
EXNMCAP 2016
ATTCAP 80320
ATTCHCAP 1941
AVGRPCAP 25344
NOTCAP 96
NOTCHCAP 163
IDCAP 0
IDREFCAP 0
MAPCAP 0
LKSETCAP 0
LKNMCAP 0
```

6.3   Sema Mark-it Parser Log

```
ATTCNT --100-- 48
ATTSPLEN --960-- 0
BSEQLEN --960-- 0
DTAGLEN --16-- 0
DTEMPLEN --16-- 0
ENTLVL --16-- 3
GRPCNT --32-- 22
GRPGTCNT --96-- 27
GRPLVL --16-- 5
LITLEN --3048-- 730
NAMELEN --32-- 14
NORMSEP --2-- 0
PILEN --240-- 0
TAGLEN --960-- 0
TAGLVL --24-- 0
MSDLVL --24-- 2
TOTALCAP --200000-- 191667
ENTCAP --200000-- 16928
ENTCHCAP --70000-- 12990
ELEMCAP --70000-- 6656
GRPCAP --70000-- 44128
EXGRPCAP --70000-- 1088
EXNMCAP --70000-- 2016
ATTCAP --200000-- 80320
ATTCHCAP --70000-- 1941
AVGRPCAP --70000-- 25344
NOTCAP --70000-- 96
NOTCHCAP --70000-- 160
IDCAP --70000-- 0
IDREFCAP --70000-- 0
MAPCAP --70000-- 0
LKSETCAP --70000-- 0
LKNMCAP --70000-- 0
```

6.4 D977JC0.ORG

```
<!-- ************************** START OF FILE **************************** -->

<!-- SUPPLEMENT NOTICE:  This file is made available to provide the user with
a digital representation of the DTD found in Appendix D of MIL-M-5096E.
This file is incomplete without MIL-M-5096E. -->

<!-- NOTE: The start and end of this file are marked with a row of asterisks.
If these rows are not present the file may not be complete! -->

<!-- MIL-M-9977J Nonnuclear Munitions Basic Information DTD -->

<!-- The following set of declarations may be referred to by
using a public entity as follows:

<!ENTITY % mnnmunbas PUBLIC "-//USA-DOD//DTD MIL-M-9977J
NMB//EN">
%mnnmunbas; -->

<!-- NOTE: In order to parse the following DTD subset alone,
append the following statement to the beginning of the file:

     <!DOCTYPE docnnmunbas [

and the associated "]>" to the end of the file. -->

<!-- ENTITY DECLARATIONS -->

<!ENTITY % mnucbasld PUBLIC "-//USA-DOD//DTD MIL-M-9977J
NBL//EN">

<!ENTITY % bodyele  "(munitdesc, suspequipdesc, gunpodsdesc,
sedesc, suppinfo)" >

<!ENTITY % shortitleuse "IGNORE" >

<![ %shortitleuse; [

<!ENTITY % shortitle ",  shorttitle?" >

]]>

<!ENTITY % shortitle " " >
```

```
<!ENTITY % titles "title %shortitle;" >

<!ENTITY % sedesc "%titles;, bombliftruck, munadapters,
munitrailers, ammoloadsys, testequip, testadapters " >

%mnucbasld;

<!-- ELEMENT and ATTRIBUTE LIST DECLARATIONS -->

<!ELEMENT ammoloadsys      - o  (%sect;) >
<!ATTLIST ammoloadsys      tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >


<!ELEMENT bombliftruck      - o  (%sect;) >
<!ATTLIST bombliftruck      tocentry %yesorno; "1"
                            shortentry %yesorno; "0"
                            %bodyatt;
                            %secur; >


<!ELEMENT bombtypemun      - o  (%sect;) >
<!ATTLIST bombtypemun      tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >


<!ELEMENT cartchafflar      - o  (%sect;) >
<!ATTLIST cartchafflar      tocentry %yesorno; "1"
                            shortentry %yesorno; "0"
                            %bodyatt;
                            %secur; >


<!ELEMENT docnnmunbas  - -  (front, body, rear?)  +(pgbrk | brk)>
<!ATTLIST docnnmunbas  service %service; 'AF'
                       %secur;
                       %docatt; >


<!ELEMENT fuzes       - o  (%sect;) >
<!ATTLIST fuzes       tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      %bodyatt;
                      %secur; >
```

```
<!ELEMENT gunpods       - o  (%sect;) >
<!ATTLIST gunpods       tocentry %yesorno; "1"
                        shortentry %yesorno; "0"
                        %bodyatt;
                        %secur; >


<!ELEMENT gunpodsdesc    - -  (%titles;, guns, gunpods)
                             +(figure | table) >
<!ATTLIST gunpodsdesc    tocentry %yesorno; "1"
                         shortentry %yesorno; "0"
                         %bodyatt;
                         %secur; >


<!ELEMENT guns       - o  (%sect;) >
<!ATTLIST guns       tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %bodyatt;
                     %secur; >


<!ELEMENT lnchdispensers    - o  (%sect;) >
<!ATTLIST lnchdispensers    tocentry %yesorno; "1"
                            shortentry %yesorno; "0"
                            %secur;
                            %bodyatt; >


<!ELEMENT missrockammo    - o  (%sect;) >
<!ATTLIST missrockammo    tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          %bodyatt;
                          %secur; >


<!ELEMENT munadapters    - o  (%sect;) >
<!ATTLIST munadapters    tocentry %yesorno; "1"
                         shortentry %yesorno; "0"
                         %bodyatt;
                         %secur; >


<!ELEMENT munitacc    - o  (%sect;) >
<!ATTLIST munitacc    tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      verified %yesorno; "0"
                      %bodyatt;
                      %secur; >
```

```
<!ELEMENT munitdesc   - -  (%titles;, missrockammo, bombtypemun,
                            fuzes, cartchafflar, munitacc)
                            +(figure | table) >
<!ATTLIST munitdesc      tocentry %yesorno; "1"
                         shortentry %yesorno; "0"
                         %bodyatt;
                         %secur; >


<!ELEMENT munitrailers    - o  (%sect;) >
<!ATTLIST munitrailers    tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          %bodyatt;
                          %secur; >


<!ELEMENT racks      - o  (%sect;) >
<!ATTLIST racks      tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %secur;
                     %bodyatt; >


<!ELEMENT sedesc     - -  (%sedesc;)   +(figure | table) >
<!ATTLIST sedesc     tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %secur;
                     %bodyatt; >


<!ELEMENT spectools    - o  (%sect;) >
<!ATTLIST spectools    tocentry %yesorno; "1"
                       shortentry %yesorno; "0"
                       %bodyatt;
                       %secur; >


<!ELEMENT suppinfo    - -  (%titles;, (para0+ | (spectools,
                           section+)))  +(figure | table) >
<!ATTLIST suppinfo    tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      %bodyatt;
                      %secur; >


<!ELEMENT suspequipdesc  - o  (%titles;, racks, lnchdispensers)
                              +(figure | table) >
<!ATTLIST suspequipdesc   tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          %secur;
                          %bodyatt; >
```

```
<!ELEMENT testadapters    - o  (%sect;) >
<!ATTLIST testadapters    tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT testequip       - o  (%sect;) >
<!ATTLIST testequip       tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!-- *************************** END OF FILE *************************** -->
```